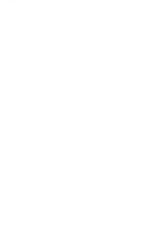
# FIRST-AID HANDBOOK FOR FLOODED AREAS

 A guide to those returning to homes, farms and places of business that have been flooded.



These booklets are distributed free of charge to all persons returning to bonnes, farms or places of business that have been flooded, Such persons are advised to read this booklet thoroughly before entering any building or structure situated in an area which has been flooded.



# INDEX

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### Health

#### Health Precautions in the Re-use of Flooded Premises

Health authorities agree that buildings which have been flooded should not be used for living or business purposes until the following conditions are

- The normal water supply to the premises shall have been made affe for drinking purposes.
  - Occupants shall have access to satisfactory toilet facilities.
     All flood-contaminated moons used for living or the conduct of
  - All flood-contaminated rooms used for living or the conduct of business shall have been thoroughly cleaned and satisfactorily disinfected.
- All decisions regarding individual compliance with the above conditions rests with the local health authority (braith officer).

  Two placerds—a red one prohibiting the use of flooded premises and a
- green one approving the use of flooded pressites from a health standpoint will be used at the discretion of the local Medical Officer of Health.
- The above conditions do not apply to persons re-entering their premises solely for the purposes of inspection or cleaning up.

# General Sanitation Procedures in the Rehabilitation of Property Before starting a post-flood clean-up cannaign it is well to remember the

nature and danger of fixed waters.

The water filling basements and low-lying areas is not just the product of melted moive or ice, nor is it similar to normal stream water. Since fixed waters overnow the countryicle and come in contact with mouse plats, garbage damps, services based to bealth unless related by stream to the product of the product o

The following naggestions will aid in overcoming these hazards. They are designed so the individual owner or tenant may carry out the major portion of his own clean-up program. The assistance of the local health authority should be sought if unusual problems are encountered.

### CHLORINE DISINFECTING SOLUTION

A standard Chlorine disinfecting solution is recommended because it is simple to prepare, effective and inexpensive. It may be prepared by one of the following two methods:

tenowing two methods:

1. Piace one-half the contents of a 12-oz, package of chloride of lime, containing from 30% to 35% of "available chlorine," OR one package of chloride of lime containing 12% of "available chlorine," in a 21/5 gal. pall with

sufficient water to make a thick pasts. When all the lime has been wetted, fill the pail with water and site vigorously for one minute.

2. To half a pail of water add one pint of liquid bleach containing from 10% to 13% of "available chlorine" OR 1 quart of bleach containing 5% of "available chlorine." OR two quarts of javed water which contains 24% to 3% of "available chlorine." Fill the pail of water and stir thoroughly.

Note: "Chlorine Disinfecting Solution" should be freshly prepared at each time of use and should not be loft standing in a metal container for much more than one bour. Avoid getting this solution in the eyes. If other disinfectants are used, follow the instructions on the label.

#### Odor Control

Water standing in Scoded cellars should be treated by distributing one pail of "Chlorine Districting Solution" over the surface of the water. This should be repeated every four days or oftener if objectionable odors become a problem. Flood odors themselves while objectionable, do not endanger health.

### Cleaning Cellars after Flooding

After water has been removed from the cellar, encourage drying by opening all windows and if possible by a small fire in the furnace.

Flace all moveable effects outside for cleaning. Allow them to air and dry in the sunlight.

Remove all silt, mud and filth from the cellar, using a bose or buckets of

water and a stiff brush or broam. Household detergents and acep will help remove oil and grosses.

When the cellar has been theroughly cleaned, areas that have been in contact with flood waters should be disinfected by using the "Chilectes Disinfection Solution," half a plant to a pell of water. Apply this pollution to walls

and floors with a brush or mop or by using a spray.

Cawl space under houses should be dried as quickly as possible. Good cross ventilation will speed drying, In some cases it may be destrable to remove boards from the opposite sides of a house. These areas may be treated with "Chlorine Delinterious Schlinter."

#### Water Supply

The provision of a water supply that is safe for drinking is a matter of utmost importance.

utmost importance.

MUNICIPAL WATER SUPPLY—when the stormal water supply to the home is obtained through a municipal pressure system, the water will be checked by local health authorities. Their approval should be obtained before the water is used for dribtion purposes. The suppersurace of the water is not.

made to determine its afterly for diribiting. Before these tests are made, each bot and cold water trap, including the one at the base of the hot water tank abould be run for 15 minotes. All taps which have been in context with flood waters should be cleaned with the "Chilerton Diristonicing Solution" prepared as above. The inside of the tap should be treated by immersing the outlet in a up of the distincteding Solution."

DOMESTIC PRESSURE SYSTEM—If the normal water supply to the host of distributing through a self-owned pressure system, and if any part of this system has been in contact with flood waters, the advice and approved of the local health authorities should be obtained before the water is used for drinking.

WELLS-Well water in flooded areas should not be used for drinking purposes until the well has been sterilized as follows:

Pour one gallon (about half a pailful) of "Chlorine Disinfecting Solution" into each pump.
 Allow this to stand overnight and the next morning pump out the well

2. Allow that to stand overlight and the next morning pump out the well until no odor of chlorine is present.

3. Before the well water is used for drinking purposes, it should be tested

and approved by the local health authorities.

CISTERNS-Where eistens normally used as a source of drinking water have been in contact with flood waters, the following procedure should be

carried out.

1. Remove all mud and silt and clean the cistern as thoroughly as possible with pails of water and a broom or brush.

2. Apply the "Chlorine Disinfecting Solution" to the walls and floors of the distern, using a mon, brush or broom.

Riese out piping leading to or from the cistern with the "Chlorine Disinfecting Solution."
 When the cistern has been cleaned and disinfected in this way, it may

4. When the distern has been cleaned and disinfected in this way, It may be filled with water. But before using the water, and "Chlorine Disinfecting Solution" at the rate of one pint for every 500 gallons of water and mix it thoroughly by stirring. After standing for 15 minutes, the water may be used for drightno.

TEMPORARY DRINKING WATER SUPPLY—If there is any doubt about the steley of your drinking water, it is well to remember that it can be made set by boiling for 10 minutes. Health officials may be extremely busy during the early rehabilitation period after the fixed and may not be able to give immediate attention to your requests.

Doubtful watur may also be made safe by the addition of chlorine. Local health authorities may be able to supply a simple kit for chlorination, otherwise the following procedure may be used: Add ten drops of javel water to a 21/4 gal. pail of water, stir thoroughly and allow to stand 15 minutes before use.

#### Sewage Disposal

Homes shall not be reoccupied until satisfactory toilet facilities have been arranged.

MUNICIPAL SEWERS-Houses served by municipal sewers will be notified of the re-establishment of drainage. In certain instances re-use may be delayed by the need for sewer repairs. SEPTIC TANKS-Sectic tanks in arms which have been flooded will not

operate again until the disposal field has dried and in certain instances until the tank Ruelf has been checked. If early drying does not re-establish drainage through the spelic tank, obtain the ausitance of local health authorities. If temporary alternative disposal facilities are necessary, a simple pit or pail privy may serve the purpose.

WARNING: Human waste must not be disposed of on the surface of the ground or by deposit into surface water. The absolute minimum requirement

for disposal is that the waste be placed in a shallow pit and covered with earth.

PIT PRIVES—If the privy building remains in place it may be used as
soon as the water has left the surface of the ground. One packet of chloride of
line about the compiled
into about the compiled of the privy building has been washed usary a see price
remains in the pit. If the privy building has been washed usary a see price
build be build as soon as socialistic Great care whould be taken to over grown

# pits to prevent accidents.

After the building has been made buildinks, the grounds thould be cleaned. Befure should be recent into two piles, one of material that can be burned and one of material that cannot be burned. These piles should be conveniently located for memory by the local collection service. Where on indicaterial cells, time exist, the combattible refuse should be burned as non as possible. Partictude attention thould be given to the remoud of all material which may serve as a breeding plane for fine. Insect breeding areas such as refuse and pools of stannest water should be morated with Besn Steary (SN, DDT is knowness).

#### F 0 0 D

All Foods and Drugs Contaminated by Water Should be Dealt with as follows:

1. NON-LIQUID FOODS, including dried fruits, cereals, flour, shorten-

 NON-LIGOTI FOODS, ISLINGING STREET, THE STREET, BOILT, SHOTTER ings, spices, packaged goods, etc., should be destroyed.
 MEATS, first and cured, should be destroyed. 3. CANNED and BOTTLED COODS, including home preserves, should be destroyed where the mail is demanged or contents show neepage or other damage. Where seal is not disnaged, contents may be used. It is recommended that the container be washed with but were containing and or other cleanus, using a break to clean creviors, etc. Unopened containers after washing, should be stetliked by immersing for 5 minutes in a choicine or other strikting adoution. Contents if possible, may be boiled as a further precaution. Blown (or swellow) can achieve the destroyed.

4. BOTTLED DRINKS—The contents of all bottled drinks should be destroyed. Washing of the outside of the bottles does not make a bottled drink safe because there is contamination under the edge of the cap. Do not accept

bottled drinks that have been exposed to flood waters.

5. VEGETABLES—All contaminated leafy vegetables should be des-

triyed. Rocx vegetables may be used if sound, thoroughly washed and cooked.

8. DRUCS AND MEDICINE—All contaminated drugs and mediators shall be destroyed. No attempt should be made to replace housened labels as the content of the

 UTENSILS and DISHES—These should be thoroughly washed and sterifized by boiling or by immersing in a suitable sterilizing solution for 5 minutes.
 DESTROY ANY FOOD. DRUCS. OR MEDICINE OF WHICH YOU

ARE IN DOUBT.

Enquiry may be directed to: Local Medical Health Officer or

Regional Food & Drug Office, Dept. of National Health & Welfare, Arason Bldg., 244 Smith St.,

Winnipeg, Man. Phone 928 494

Food and Dairy Division, City Health Department,

City Hall, Winnipeg, Man. Phone 849 169

Bureau of Food Control, Manitoba Dept. of Health & Public Welfare, Winnipeg, Man. Phone 37 131

# Buildings

#### THE HOMB

# Entering the House

Before extering a building, make arm it is also and not ready to collapse. All doors and window that have bops antumerped will be receillen stight. When entrance must be ranks by ferce because of revollen doors, accumulated mond, or bulged floors, enter by a visitodor or other opening, and then remove the piss of the door langue by lifting them with a newer driver and humsner. Be sure the door is undeclored and then push it in from the outside without demanging it. On entering, here in mind there may be boken in the floor or market floors are considered and the contraction of the contraction of

Look for loose plaster ready to fall from the ceiling, and break it down
with a stick before moving around in the building. Wer plaster is heavy, and
dangerous if loose. Watch for more loose plaster as the house dries out.

Open all doors and windows where possible to dry out the house as

both air and heat are essential. If windows are not too hadly swellon they may be removed by taking of the small tirty that bolds in the lower and (use a chiest carefully to avoid maring woodwork) and gently working out the such from the frame. Be careful not to break the glass. If the structure is out of plumb or if the floors are badly nottled, make are that the foundation and framework are sound before delong much

removating. If the building has to be moved, expert help should be called in unless the structure is a simple one.

Basements must be drained and cleaned as soon as possible. Remove the

Basements must be drained and cleaned as soon as possible. Remove the mud from the furnace, fluxs and smoke pipe.

The house should be clean and dry before any attempt is made to live in fit. The premises should be drained of all remaining pools of water. Defit wood, robbish and decaying vegetation left in the yard should be resourced, because of the decay to the clean of the clean of the process which is the base set on an open foundation, special earth should be used in removing debris from under £ as well as from under the proches until it has been determined there is no disapper from caving in. Walks and fencer demanged by flood waters are a hazard until replaced or required.

## The Heating System

Before narring a fire in a heating plant, examine the inside of the heater and wesh the rediment from the flues with a hore or a sweb on a long stick; the flues can generally be resched through the clean-out door above the fire door. If the heater is jucketed, clean out all mud between the stoves and the outside casing, if may be ancessary to remove the casing, If the flues or passeges are choled with mod, the hoster may burst when a fire is started. Take the smaller pipe out of the chimmery, and reach through the thimble to resource any mud from the lower portion of the chimnery flue, to be sure that there will be a draft for the fire and avoid smoking up the house.

In off-burning systems, the storage tank should be inspected to make some searce have not been opened, allowing water and that to enter. The burner should be demanded and still parts cleaned in kerosens. The six blower and fuel pump should receive attention. Housings enclosing goest absoluble to-moved und guest horocophy decaded with kerosens. Any girk loft

Any chinney that has been subjected to water action should be carefully inspected to determine whether mortar has been dissolved, leaving openings between the brick in Most chinneys have a foundation in the ground. That foundation should be examined to learn whether undermining has occurred which might later cause the chinneys to onlines.

#### Planes. Woodsoork and Doors

After the accommission of wer mud and dirt has been abroelled from the floors they will in all probability be found badly bookled. Do not attempt to repair them until they have had a chance to dry out. Start a fire in the besting plant but do not overheat the house. To do so would only create vapor and perhaps steam that would be absorbed by the wood and delay drytes.

After the house has dried out, it may be feasible to draw zone of the flooring back into place with contect-coated nails. No attempt should be made to refinish floors or to lay new floors until the wood as dry Where only the floor finish has been damaged, the floor may be reconditioned.

Usually all woodwork that has been subscraped by food waters will be sharely costed with mod. Struck all woodwork with a stiff filer brush and planty of water, to reasone the ski in consect, cracks and cavious before the beause is dried out. Down and windows bounded be left window gong in order to dry out the entire beaus. Wige floors and woodwork with a damy clotch dipped in water to which a small consect of intronces has been added. A f in 15 per cent relation of the trace and windows are my cleaning find manple. The control of the control of the control of the control of the clotches as cleaning a stamp.

Take the knobs from the doors and lay the doors on sevel serfice with wooden strips separating them, to faciliste drying and to maintaine warping and visiting out of shape. With venerod doors this is especially important. Such doors are very likely to be ruined by submession, but some of them may be usable if they are piled properly and dried carefully to prevent separation of the piles.

Lock, repeatally those of iron, should be taken apart, wheel with foremens, and cloud If it is not fessable to remove them, apart in a little maches oil through the bolt opening or the keyhole, and work the knobs as as to distribute be oil. Otherwise the springs and restel casing will sools not said one of the contraction of the contract of the contract of the contraction of the contract of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contraction of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contraction of the contract of the contraction of t

Put off pointing and redocorating until the moisture has dried from the framing, from the back of the trim, and from between walls and floors, this may take several mostlas. Oil paint will not stay in place when applied on damp wood or plaster.

If, after the interior woodwork and walls in the house have been cleamed of the accursulation of mud and dirt, it is found that the original flaish is gone, consult as experienced painter in regard to restoring the finish. If you think you can do the work yourself, be guided by the instructions on the cast of standard branch of consists and warnishes for household time.

#### Walls and Wallpaper

Do not attempt to wash dump plaster, it should not be rubbed or cleased until it is bone day. Then it may be rubbed uniformly and lightly with stale bread crumbs, sponge rubber, or a good wallpaper cleaner. With cure, plaster may be wiped with a slightly damp cloth and draed immediately. Leave bedlystanced walls for testiment when final redeventation is to be done.

Wallpaper honging from walls and osilings is difficult to restore because at is brittle and is likely to be badly stained. Ordinarily, tear it off and indecensis when convenient.

#### Insulation

If it is suspected that insulation in walls has been damaged by water the advice of a regulable authority should be small!

# Roots

Damaged roof coverings may be repaired temporarily with material immediately at hard sod later permanently repaired by the owner or a reputable roofing contractor.

#### Furniture

Take all furniture outdoors and remove as many of the drawers, titles, or other working parts as possible. There will probably be strokt (spit) bon not force the drawers with a screwdriver or classif from the front. Remove the back by outling it out it necessary and purb out the drawers. After the various moring parts of the furnitures have been removed in that way, dean the fine of the contract of the contract

Do not leave them out in the sun because they will warp and twist all out of shape if you do.

Some of your furniture, especially that made of solid wood, may be salvaged by reglueing. Chiefing, however, is a fairly difficult job to do at home because on many places it is necessary to use clamps. Before starting this task, therefore, decide whether it is worth-while investing in this equipment and whether you have the time and ability to do the work. If you find the week too difficult to attempt commit an expert cohinetmaker shout it.

Overstuffed furniture should first be cleaned and the odor removed. If the furniture has not been dried out thoroughly, but has been allowed to stand in a damp condition a long time, the stuffing may have started to decay. and if it has, it will probably be necessary to replace the stuffing to get rid of the odor

If, after cleaning, the upholstered material has faded or looks worn, it may be dyed or re-covered or a slip cover may be made for the piece of furniture.

The furniture may need remaining, that is, the springs may need to be cleaned and must removed and oiled the frame may need to be cleaned and the stuffing may need to be replaced. If this is true, the furniture may be sent to an expert cabmetmaker and upholsterer, or the renovating may be done at home. Some of your furniture on the upper floors of your house may not have

been submerged, but may only have become damp because of the water below. In such cases the varnished surface may have developed white mosts or a sour caused by dampness Such defects may be removed by rubbing the surface lightly with a niece of flamel duranesed with minits of country or susence of persperment, and after a few minutes, applying furniture polish. A drop or two of ammonia on a damp cloth may be used in place of the camphor or peppermint. If the spots cannot be removed in this way, it will probably be necessary to refinish the furniture.

Repairing veneered furniture is so difficult and requires so many different types of tools that it is not practical to try to do it at home Consult an expert cabinetmaker about such repairing, or have the store

from which you bought the furniture send it back to the factory to be repaired. Clean metal as soon as practicable, especially if it has an trop base which is likely to rast badly. Rust on iron can be wiped off readily with a rag saturated with kerneene. Then lightly cost (not hardware with cetroletum or weeklee

off. Polish stoves and similar from work with a good stove polish. Wesh note and pans with soapy water to remove the kerosene, and then coat with leaf lard beated on the stove or in the oven, wipe, and put away Clean brass and copper with a nomade or enectal polich; then wash it with warm soany water and dry it thoroughly.

#### -

Books and papers should be deted carefully and slowly. Books should be placed on end to day and the lenses loop spart. After exposure to the six for a time they should be pittled and pressed to loop the leaves from crumpling. This alternate drying and pressing should be continued until the crassitals are thoroughly day, so as to prevent milders. A little heat and separating of the papers are desirable towered the end of the process, to prepare mustive orders.

### Cleaning Clothing and Bedding

Mud-stained white cottons and linear (clothing, sheets, towels, table linear, stc.) can be cleaned with zone sfirst. Ups the services of a professional dry cleaner or launcherer when in doubt.

Do not plunse white cotton and lines fabrics stained with flood-waters

carrying red or yellow clay into hot reapeads. Clay makes a stain like from rust, and hot coppeads will set such stains. Also be careful not to over-bleach floodcationed fabrics.

First brush off all loose dirt possible. Then rinse mod-stained fabrics several times is not! where to take out particles of soil lodged in the years. When no

times in cold water to take out particles of soil lodged in the yarns. When no more dirt can be rinsed out, wash the articles in warm scapsuds, through several waters if necessary.

In stricture cases, try bleaching white cottons, linears, and rayons in javel

water, in sedium perborate, or in a weak solution of oradic acid. Do not use on colored outerials. Dry white fabrics in the sun to acid in bleaching.

To clean woolen clothes and blankets, first shake such brush wall to remove

as much dare as possible. Near rivuse soverest bases in belowerum worker to resource particles of self bedged in fibers. Then prepare an abundance of ladowerum sudi from neutral loop. Or use once of the soupless of warking an attentials not he are sold for hair sharepoor. Squaree and work in the suda wethout rubbing. From out the neutre worker and wark in as sound under of the matematum. Never bed wood materials. Rusus free from noop na several changes of hadowerum water. Woodness should be drawed in a worm also he to too from a fire or in disease.

Woolean should be draed in a warm place but not near a fire or in direct significant from the story of the st

Hang blankets over a line—or two lines close together—to share the weight,

Priss wool germents while still demy with a modifum but two, and protect with a pressing cloth if they are to be trouded not being the file. Be save to leave a little notisture in the wool or it will look hard and lifeless. To clean affit and representatives, removes used and other loose that in the way recommended for cotton and lines articles. Which in an abundance of lubewarm such, according press on the worning did with a term broken. Mildew states are caused by a fungus growth. If mildew has pecetrated the fibers and been there for some time, the state cannot be removed without chanaging the cloth. Lemon juices, sodium pseborate, and javel water will bleach out mildew states on white cotton, linen, and rayed.

Mattrease soulod with floodwater are generally dumaged beyond use and should be timesred, as reconditioning it so callicult to be done at boson. A sufficiently valuable mattress or one of the inner-spring type may be seet to a commercial recovaring company, where the stringle will be taken out and thoroughly cleaned, the ticking cleaned and restend, and the whole put together again to a mattress frame.

Transfer the feethers from pillows to a musils beg two or three times the set of the toking. Fart wer the edges of the openings of the timing and the set of the toking. Fart wer the edges of the opening and the timing and the off-seathers in hidewern suspends, speet, and time in hidewern water, changing a secrent times. Suppose cost all of the water possible, and by the pillows of the set of the second of

Flood-snaked thick conforters of cotton or wool, like mattresses, are very difficult to recondition. The only way is to take them apart and wash the cover and filling separately and them refill and tuft them together. Lightweight quilts may be washed like cotton or wool blankets and, if

aguivecagus quinz may be washed use conton or widd DMBANGES SBG, if possible, should be dried quickly out of doors in the sun to remove the unpleasant odor.

# Cleaning Rugs and Carpets

Let rugs and carpets dry out thoroughly. Then clean by beating or aweeping or by using a vacuum cleaner. If necessary shampoo them with soap jelly. Leave large rugs on the floor or spread them out on a porch. For convenience work with small rugs on a table near the sink or laundry tube.

Make the seap jelly with one quart of mild soop flakes disorded in flave parts of his value. Beat with an org poster to from a still lather such apply with a brush or sponge to a small part of the rog at a time. Scrub gently. Then who of the dirty lather and rime this pectain timedirthly with clean water. Work over the surface of the rub in this way to overlapping sections so as not to love streaks, and when resisting for the latt time brush the sam in one direction. After shampooing them, dry the rugs or carpets as quickly as possible by beinging them up and exposing them to a circulation of warm, dry six Make sure they are thoroughly dry, for even though the surface seems dry, any monther remaining at the base of the tufts will quickly rot the rug, causing it to fall smart.

Under ordinary circumstances there is danger of colors running and rugs strinking when shampooed by home methods, but with articles badly damaged by Books it as senserally a case of reconditioning them for any possible use.

After such treatment some types of muchine-made pule rouge may need setting to stude them In Bat on the finor Dissolve moch said pround of good setting to stude them In Bat on the finor Dissolve moch ally pround of good moch species in some part of the buses where it can remain undertunded, and tack it down as todarvalle, being correlat to have it straight and true. Then with a whiteworth of the contract of the

Countion. Do not use so much glue that it will sook through to the right side of the rug.

# Cleaning Upholstery Fabrics To clean upholstery fabrics, follow the directions for rugs and carpets, first

Secretary.

brushing off all loose dirt and then shampoong the fabric with a lather of mild sowp, and rinsing quickly.

If the entire piece of furniture has been submerged, joints may be loosened and springs may be rusted. If springs can be reached, rub them with oil or

#### Electrical

VITAL INFORMATION TO USERS OF ELECTRICITY
When Buildings and Equipment have been affected
by Flood Waters

## BUILDING WISING

Wet Wiring Is A Possible Hazard To Life and Property

#### Inspection

The Frovincial acts and Municipal by-laws require inspection of electrical wining by the proper authorities, before the electric power utilities are permitted to sunnily the premises with electric current.

In finded earns where alcents extens has been cut at the service entrance or at the pole, the writing is required to be impected before it is retinued to service. In Secolar dareas where the sheether wiring has been partially or fully covered by water, if the electric service has not already been cut off, proteed as follows: Standing on a dry platform and using a dry skick, julk the syndich bandle of the service extent for the yard pole switch into the "open" position, them apply for an electrical impactions before plating the writing in service.

tom apply for an electrical inspection before placing the wring in service.

If temporary electric services or if partial electric services are in use, reinspection is necessary before full service is restored.

# Where to Secure the Electrical Inspection of Wiring

In the City of Winnipeg—the Electrical Inspection office is located at 231 James Avenue, telephones 849 113, 849 251, 849 252. District offices may also be established.

In the municipalities adjacent to Winnipeg-call at or phone your municipal office, or other location later designated. Or, you may call the Provincial Department of Labor, tolephone 907 474, 907 251, 907 252, 907 269.

In Manstoba Power Commission supply areas—contact your local M.P.C. representative or the M.P.C. Head office, 602 Canada Building, telephone 933 551.

#### Inspection Requirements

lower pour building utring is checked by an electrical impostre, he will dawn a report showing what reconditioning or replacement work, if any, is required to be done before electric service is reconnected. It is then the responfulfity of the building comer to arrange to have this work on the building wiring done by a Remand electrical contractor or electricates.

If you do not have your own electrician and if you live in the Greater Winnipeg gree, a list of electrical contractors and electricians who are co-operating with the Manitoba Electrical Association in relabilistation work may be obtained from the Association's offices, 21 Trans-Canada Building, telephone 927 187 If you live in an area served by the Manitoba Power Commission, the names of licensed electricians may be obtained from the Commission's representatives.

Inspection reports or tags must be carefully preserved until work is complete and electric service is restored to the premises.

Reconnection of Electrical Supply by your Electric Utility

The electric utilities may not reconnect your electric service until the

The electric utilities may not recomment your electric service until the impection requirements have been met.

In the City of Winnibeg, as soon as the inspection requirements have been

met, the City Electrical Imspection office will advise your electric power utility that your electric private may be reconnected.

In the municipalities adjacent to Winnipeg, as soon as the inspection the properties and the properties and the properties have been met the municipal electrical properties will notify your

electric power utility that your electric service may be reconnected.

In Manitobu Power Commission areas, the Commission's electrical inspector will himself arrange for reconnection of the service when its condition is satisfactor.

The preceding steps are those required in order to have your electrical service reconnected to your home or other building premises. When these steps have been taken, electric current may again be turned on the permanent wirting of your building.

IT IS EQUALLY NECESSARY TO ATTEND TO THE CONDITION OF EVERY ELECTRICAL APPLIANCE WHICH HAS BEEN FLOODED OR OTHERWISE WETTED, IN ACCORDANCE WITH THE FOLLOWING SECTION ON "RECONDITIONING."

# RECONDITIONING OF ELECTRICAL APPLIANCES AFFECTED BY FLOODING

No attempt should be made to try out or to operate any electrical appliance until the wiring in your home or building has been inspected and found safe.

DO NOT PLUG IN OR USE ANY ELECTRICAL APPLIANCE THAT HAS SOR MAY HAVE BEEN WET UNLESS IT HAS BEEN CAREFULLY INSPECTED BY A COMPETENT ELECTRICIAN OR SERVICEMAN. IT MAY BE DANGEROUS TO USE, SINCE INSULATION WHICH IS WET CAN RESULT IN A SEVERE OR BYONE PATAL SPOCE.

The principal damage from flooding to electrical appliances will be that arising from wet motor windings, wet electrical insulation, wet heat insulation in refrigerators and ranges, rusting or correction of metal parts, silt in switches and automatic controls ster.

An appliance may be further damaged if it is plugged in while damp; for example, a motor if reconnected while damp may have to be rewound or replaced entirely. Equipment which may appear dry may still be damp interaction.

In many cases the appliance dealer or the electrical utility from whom you purobased the appliance will have service facilities available to him through which appliances can be checked over and any essential drying or repairs made.

# SPECIAL PRECAUTIONS REGARDING INDIVIDUAL APPLIANCES (These should be checked by your serviceman or electrician)

A brief description of the treatment which should be accorded each of the various appliances now follows this index of items

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(Note: The partial use of information prepared by the B.C. Electric Company Limited is hereby acknowledged)

#### 1. Appliance Cords

A damp cord is hezerdous to the user and to children. Preferably it should be distroyed and replaced, if this is not possible, thoroughly dry it with a gentle heat below 200° F.

#### 1a. Bell Ringing Transformers

If damp or wet, discard the bell ringing transformer and have a new one installed. This is an inexpensive item, and one cannot be sure that after a wetting such a transformer will again be safe.

#### 2. Blankets (electric) and Heating Pads

Examine the manufacture's directions or consult your dealer about these flems if the article can be washed currifully, do so in accordance with directions, than dry throughly for twice the period of time needed to make it seem quite dry Keep in mind that the controls may be inoperative and corroded due to immersion in water-this is a natter for your dealer or service man to attend to.

#### 3. Brooders and Incubators

- BOX (cabinet)
   Dismantle—thoroughly dry out—replace insulation.
- WIRING
   May require replacement
- May require replacem

  3. THERMOSTATS
  - Thoroughly dry and clean-these may need replacement

    4. FAN-Treat as shown under paragraph "Motors General."
- ELEMENTS—Treat as elements for Ranges.

#### 4. Clocks-Electric

Water and silt will have entered the precision bearings and gear train used in this appliance. Repairs by a competent shop will be required for lasting operation.

# 5. Kitchen Appliances—hotplates, irons, kettles, percolators, toast-

These applicances should be thoroughly dried out before using. The element of an electric from may have to be renewed. Soft and corrosion may impair the automatic features of from and toasters, in which case the services of a competent repair slop or servicemen are necessary.

#### 6. Milking Machines

- MOTOR-treat as shown for "Motors--General."
  - LINES or TUBING—pump out, flush thoroughly, sterflize very carefully.
    - carefully

      3. PUMP ASSEMBLY treat as "pump mechanism" under Electric
      Water Systems, then flush and sterilize.

7. Motors-General-from washing muchines, stokers, ironers, electric water systems, other motors in seneral

Any attempt to operate a motor with set windings results on burning out the motor

Where immediate return of a small size motor to service is necessary, the purchase of a replacement motor should be considered

The rehabilitation of a damp or wet motor consists chiefly of dismantling, cleaning, removing silt from bearings, wells and switch mechanism, baking of

8. Other Motor-Driven Appliances-such as fans, kitchen mixers, vibrators.

windings to remove moisture content, reassembling, reniling, Treat as shown for "Motors-General."

#### Q. Radios

If a chassis or sneaker of a radio set has been under water the cost of renair may be probabitive. Moisture may be the cause of extended breakdowns of condensers, etc. Consult a competent radio servicemen as to the best possible course of action. In many cases the purchase of a new radio may be most satisfactory and least expensive.

#### 10. Runges (electric) and Rangettee

The nature of the work which is required on a waterscaked range is such that it can be done only in a competent repair shop.

The principal damage to a range which has been partly or completely mmersed will be seaked heat insulation around the even, weakened or destroyed electrical insulation on the wiring, water-lossed switches, controls. and semi-enclosed surface burners. The work involves

#### 1 SWITCHES

Range switches that have been submerged may operate briefly but in due course will probably break down and have to be replaced. A flush type switch (where you see the hutton only) is very difficult to dry out. The drying out of an older style surface type switch can be aided by removing the switch cover

#### 2. OVEN CONTROLS

The oven control may work for a while, but as the moisture will break down the insulation of the coil it will probably have to be replaced.

### 8. SURFACE BURNERS

(a) The old style open burners will probably work without trouble provided they are dry and silt has been removed. (b) Tubular types, such as used in Hotpoint and Frigidaire ranges should be lifted and the terminals well wined.

(c) Some of the closed-type elements such as Moffat "Red Spot," McClary "Redbead" are protected and may often withstand

Other types are semi-enclosed with a metal cover over a porcellain brick and element, such as Moffet "Cook Outek" and "Bakker," and these will probably have a high moisture contest, They may fail due to porcelain cracks or the element wire touching the top metal plate.

4. WIRING WITHIN THE BANGE

Most wiring within the range is asbestos covered and is likely to have perished. Remove drip pan or take any other steps to get as much air consulating into the wiring as possible.

5 FUSE RECEPTACIE

Thoroughly dry out the receptacle.

8. OVEN INSULATION Most ovens are insulated either with rockwool or glasswool, which is like a sponge for absorbing moistors. When wet, it will no longer act as a heat insulator and may also cause the wires leading to the oven element to short circuit. When dried out it may disintegrate and have no insulating value. Replacement of

#### 11. Refriserators

this insulation is a job for an experienced servicemen. Refrigerators, including household boxes, home freezers, milk coolers and walk-in boxes, can be classified into two general types.

(a) Belt-driven with exposed motor

(b) Hermetically scaled unit type, which in most cases has the motor enclosed and protected.

Any refrigerator cebinet that has been partially or wholly immersed will have week insulation, which has no value as heat insulation. It cannot be dried without removal.

The only proper solution is to have the refrigerator overhauled by a competent acrylics orvanization

Open-type motors will have to be replaced or dried out,

Controls, relays and wiring will have to be checked. They may not operate properly if they are holding any moisture.

The operating mechanism in a hermetically-sealed unit will probably not have been affected by flood waters and may only need to be closued off. In all cases, before using he sure to thoroughly clean and wash down the Interior and the exterior of the refrigerator,

On the conventional belt-driven type of compressor unit, moisture might have entered the refrigeration system. This will soon become evident. After starting up, the unit either continues to run without refrigeration, or it stops completely.

### 12. Tima Switches

Treat as for clocks.

18 Vacuum Clamere

Treat as for "Motors-Ceneral."

#### 14. Washers and Ironers

MOTORS—Treet as shown under paragraph "Motors General."
 GKAB ROX and WRINGER HEADS

Water may have entered the box which contains lubricating of or grosse. The necessary repair is to strip down the box, flush out with heroseme or solvent; thoroughly clean, re-assemble, add new oil or grosse of the recommended consistency S. IRONERS SIGNES and THERMOSTATS.

There are several types of electric elements used in ironer shoes.

There are leveral types to electric electrical table in about takes. In classe where the electric element in placed between alms absets, water may have entered, in which case the shee should be stripped, parts thoroughly dried and element checked before reastembling. In shore using other types of element, the element therefore the stripped and throughly cleaned out.

# 15. Water Heaters (a) IMMERSION TYPE, IN INSULATED TANK

The head (connection how) of the heater may have to be dried

The head (connection box) of the heater may have to be dried out, or the heater replaced. Call your electrical utility or novviesman. The heat insulation around the tank may have sagged. It should be lifted, but is likely to day itself out in a week to ten days. In some cases the insulation may have to be replaced.

(b) WRAP-AROUND HEATERS, also "PACKAGE" HEATER UNITS

H such a water heater installation has been partly or whelly submerged, the only proper solution is overhaul by a competent service organization. Heat insulation may require replacement, the wiring may require replacement, and thermostats and elements require drying and checking.

### 16. Water Systems

- MOTOR—Treat as shown under paragraph "Motors—General."
- 2. PUMP MECHANISM
  - In most pumps there are breather holes through which water and sediment may enter the casing and new with the oil. In these same the pump should be dirmanted, cleaned out and fresh off added. The last scene on the succious valve will probably need cleaning. Do not deals off the old oil and water maxture until ready to clean and mut in fresh oil. otherwise interior next will rusk.
- 8. FOOT VALVE Some pumps have a foot valve and acreen in the well at the bottom of the suction pips. This may have become clogged, in which case it should be haused up, cleaned, finished out and re-shaded. Note: When reinstalling, he sure that the surtion line clears the bottom of the wall.
  - PRESSURE SWITCH or CONTROL.
     These switches are usually inside a notal box which will probably be full of water. This necessitates thorough drying out and cleaning. Rusted parts must be thoroughly cleased or replaced.

# Agriculture

# THE FARM

#### Linestock and Foods

Water alone does not necessarily injure feed. The principal danger in feeding law, grain, or forage that has been wet is caused by changes in feed resulting from model, purefection, and fermentation. If feed has only recently been wet sud it can be dried quickly, there is much less danger than when the wet condition so for several days 'or week's duration.

Wet hay should be spread out to dry and turned and shaken frequently it may be handled in much the same way as hay that is being made from friethly out grass. Bake of hay should be opened and well spread out. Wet free turnedstar was to be a superior of the same than the same returned to the same that the same that the same that the same ventilated buildings. Freeds that are slightly wantly or partly appoind are more likely to induce

herest bian cattle, and hops will tolerate still poorer feeds. But there is a dutinet risk in giving feed that is prolied in any degree. Under no circumstances should spoiled feed be given when scond feed as available. Livestock may, beewer, therete small quantities of artistic feed, and nuch feed may be given to nutrain life until supplies of side feeds can be obtained. The principal charge is from digitative darturbinescs and so-called foreign pouncing,

The presence of sand or dart in feed is not a noteworthy danger since animals normally consume small quantities of dirt. However, the presence of considerable quantities of such matter tends to make feed unpaktable. It is therefore advisable to remove the dirt by sitting, shaking, or other means.

#### Disposal of Animal Carcusses

The disposal of dead animals will present a difficult problem. In most flooded areas access to these curcasses by any form of vehicle will be delayed until the ground has dried. The services of a rendering plant should be used if they are available and if the curcasses tan be trached for transportation.

In most areas, final disponal will be by burial. Until this can be arranged one of the nost effective netward controlling odor is to cover the carcass with ordinary hibriosting oil. Chloride of line may also be of value in odor control. In checking a burial site be certain that subsurface drainage will not reach the water supply of persons or investock.

Cremation is particularly effective in disposing of the carcasses of hogs and fowl.

#### Infectious Diseases

In the wake of flood waters there is some danger of infectious diseases, but unless serious outbreaks of infection have occurred recently, the danger is not sufficiently great to be slarnning.

#### Trash in Pastures

Before restocking pastures that have been flooded, make an inspection of them, especially along feace lines and coregir. This precaution should present cuts and other injuries to livestock from pieces of barbed wire, sharp metal, and other trash accumulated in fenced enclosures.

#### Ditches and Drains

Clean out farm ditches and drains promptly in order to remove excess moisture from the soil and fit the fields for cultivation and to avoid danger to public health that may result from stognant water

Clear outlet ditches of clebrus, drift, silt burs, and shoels to provide good outlet for field ditches and drains in the smaller ditches, harn can be removed with shovels or with teams and corepers. In the larger ditches dynamics fin-quently can be used to advantage. Start the work at the lower end of the ditch so are to get in de standing watter that will impose the work.

# Insect Control

Control of insects in flooded zones will be an important problem. Screens should be repeated to keep out thying insects. Apply a robidical containing they per cent of DDT in oil to all screens to kill the muest adapting these. This beatment will be aspeciably helpful in beeping out gusts, madges, and other mail flus that would normallly enter between the nonless of ordinary persentences. It will also serve as protection against nonceptions and many other incohes that bread abundantly in standing water, staguant pools, and damp debris in low spots.

#### TRACTORS, CARS, TRUCKS AND FARM IMPLEMENTS

# Engines

Corrosion by rust is much more rapid when air end moisture combine to tatack parts. Completely submerged parts will rust only slightly while under water but should be cared for as soon as possible once the smachine can be looked after Pacillities for complete cleaning and starring abould be available before beginning to fit the tractor for service.

looked after Facilities for complete cleaning and starting abould be available before beginning to fit the tractor for service.

ALLOWING THE TRACTOR TO STAND FOR SEVERAL DAYS AFTER DRAINING WITHOUT GETTING IT DRIED OUT, HEATED, AND NEW OUT, ON PARTS MAY CALLS MORE HARM THAN THE

Dysing of sixting and electrical units must be thorough to evoid share clouds and passingh horizon for all colls, see. Where servicesslave units much as states, batteries, etc., can be substituted it may reduce the time of getting this tractor into service, their reviting of mineral parts. Because of rapid rusting some the tractor is opened it is most important to the contract of the contract of

The selectional parts should have cover removed and deted by a blast of at where possible. Be but a uppoint to electrical unit is must not encound 130° T to credit demange to insulation. Pyrone in a final which can be applied by many or disposal to electrical parts and horsepen-the application of pyrone per selection of the period of the selection of the period of the period hostery rough to removed and drained, washed not with distilled water and final final with and or eveloping. The whole first system hould be deriated and final-bet test, lines. Sixtre, and orthoriety The are cleaner should be cleaned in 1500 derivation of the contraction of the selection of

good cooling.

The next job is to drain the crank case transmission and all gaze cases.

Ramove the spark plags. Watch donely for all deposits, and, if aerican, remove
the monester peris and clean. The sengine navy done to transde over by hands to
work out the water from over the pintons. Oil can them be possed into the
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A flashing oil of it keronees and it No. 10 S.A.E. motor oil should be proposed. This case be used to refill crackcase, gear bosses, transmisson, etc., to normal levels. Chassis grasses school be used for re-grease all chassis basering for eliminating water and sift Frost wheels should be removed, bearing without and or organized. Onl filters though the removed and replaced

What the above servicing is curried out the engine rear be safely strated, when to load, or layed load, the unit should be driven. Solviers should be seemed to rear the temperature of the motor up to 100° F or 100° F Works the same are not be temperature of the motor up to 100° F or 100° F Works the same made change the off the real three field with of all standard continuations of the cut, truck or tructure on those to put into onceal unit. The cut truck of the real cut is the property of the continuation of the cut, truck or tructure on those to put into onceal unit change of historication throughout in encommended, plus a new off filter at, may the end of the hours.

say, the end of ten house.

Do combines or other motors which will not be used for some time the same procedure should be carried out to sensus complete drying. For storing afferwards a special of can be used which publishes rust. This is of can be applied by rag, break or spray to all machine parts which show signs of rust affects the cares these first of cast. If the normalism is studied in the break of the force.

recommended for internal use, then it can be poured into the spark plag holes and worked around into rings and valves by hand-turning of the engine, in the case of engines dred out and being stored. Another method is to remove the sir destoner with engine running and throw a pint of this old into the carbuserter as the engine switch is turned off. This throughly works the off into rings, valves and cylinders when warm and day.

carouters at the engine belief in the management of 185 theorogany works the into rings, where and cylindres when ware and day.

Extra lubrication of all warring parts is important to work out water, cut and slift. Where overhauld were inducted before the flood, this work should be done immediately after the flood. A compression tester can be used to not extra review couldner procuracy siff them to indication of rotten rings warrant.

Where beary duty oil has been used prior to the flood the oil may become grey and thick with water and curbon in a short time after starting the engine. The oil dip stet should be carefully and frequently beshed for the first ten hours of operation. If graying or thuckening occurs then drain and refill with clean oil and again replace the oil filter.

As well be seen from the above recommendation, immediate removal of water and moisture is necessary Plenty of fresh labrication will work rust and sit. If this is done immediately, the possibility of a major overhaud being recurred is reduced.

#### Farm Machinery

Before trying to operate any machine inspect it carefully and removes all dist and debris

Clesu and oil all bearings, sprockets, chains, and gears not protected agencies one of water and get. Sometimes bearings equipped with agencies cross or allemits or zerk fittings can be sufficiently Chemnel by feering grease or oil through there ustil a considerable emount has oussed out from the sides of the bearings.

After elexang the bearings and replacing the parts removed, carefully turn over the stoving parts of the machine by hand to make sure that they work freely and that no dirt or debris remains to meteriors with operation of the machine.

It is very important to do the above cleaning and oiling on all machines as soon as they are accessible. The rust inhibiting type oil mentioned above is most effective when storing machiner for some time. It is highly recommended for such though as cultivators, showels, moldboards and all places subject to rusting in storage.

# Flood Memoranda

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The health is pregond, published and distributed by the Government of Manibles in the loop that it may assist those returning to hence, farms and places of business that here been fooded. The government gaste-fally acknowledges the material regulied by the following Municipal Imperiors austronets; Gov of Wanninge Municipal Imperiors austronets; Gov of Wanninger Perfect Exception, Winnings Electric August 1974; The Charles Springer, Warnings Electric Company, partners, the Central Sectings on all thesings Corporation, and the City of Wannings Corporation, and the City of Wannings Corporation, and the City of Wannings (September 1998).

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Owing to the wide range of conditions in the flooded

areas, these suggestions are necessarily general in nature. They deal largely with basic principles whose application will vary with local conditions. Local regulations and instructions from officials in charge of rehabilitation work will take precedence over the general information, contained in this publication.